

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/630,319C

CRF Processing Date: 1/32/2003
 Edited by: [Signature]
 Verified by: [Signature] (IC staff)

ENTERED

RECEIVED
 JAN 24 2003
 TECH CENTER 16002900

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number input by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☒ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 124
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95



1600

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

```

3 <110> APPLICANT: Krieg, Arthur M.
4      Klinman, Dennis
5      Steinberg, Alfred D.
6 <120> TITLE OF INVENTION: Methods for Treating and Preventing
7      Infectious Disease
8 <130> FILE REFERENCE: C01033/70042(RCL/JAV)
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/630,319C
13 <141> CURRENT FILING DATE: 2000-07-31
15 <150> PRIOR APPLICATION NUMBER: US 08/960,774
16 <151> PRIOR FILING DATE: 1997-10-30
18 <150> PRIOR APPLICATION NUMBER: US 08/738,652
19 <151> PRIOR FILING DATE: 1996-10-30
21 <150> PRIOR APPLICATION NUMBER: US 08/386,063
22 <151> PRIOR FILING DATE: 1995-02-07
24 <150> PRIOR APPLICATION NUMBER: US 08/276,358
25 <151> PRIOR FILING DATE: 1994-07-15
27 <160> NUMBER OF SEQ ID NOS: 124
28 <170> SOFTWARE: FastSeq for Windows Version 3.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 20
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <214> FEATURE:
37 <215> OTHER INFORMATION: Synthetic Oligonucleotide
39 <400> SEQUENCE: 1
40 atggaacgtc caggtttctc
41                                     20
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 20
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial Sequence
47 <214> FEATURE:
48 <215> OTHER INFORMATION: Synthetic Oligonucleotide
50 <400> SEQUENCE: 2
51 atggaacctac gtaggtttctc
52                                     20
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 20
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <214> FEATURE:
59 <215> OTHER INFORMATION: Synthetic Oligonucleotide
61 <400> SEQUENCE: 3
62 ttcataaagt tctgtatgct
63                                     20
64 <210> SEQ ID NO: 4

```

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\01222003\I630319C.raw

```

65 <211> LENGTH: 15
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
68 <210> FEATURE:
70 <215> OTHER INFORMATION: Synthetic Oligonucleotide
71 <210> SEQUENCE: 4
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 15
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
76 <210> FEATURE:
78 <215> OTHER INFORMATION: Synthetic Oligonucleotide
79 <210> SEQUENCE: 5
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 15
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial Sequence
84 <210> FEATURE:
86 <215> OTHER INFORMATION: Synthetic Oligonucleotide
87 <210> SEQUENCE: 6
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 15
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
92 <210> FEATURE:
94 <215> OTHER INFORMATION: Synthetic Oligonucleotide
95 <210> SEQUENCE: 6
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 15
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
100 <210> FEATURE:
102 <215> OTHER INFORMATION: Synthetic Oligonucleotide
103 <210> SEQUENCE: 7
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 15
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
108 <210> FEATURE:
110 <215> OTHER INFORMATION: Synthetic Oligonucleotide
111 <210> SEQUENCE: 8
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 15
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
116 <210> FEATURE:
118 <215> OTHER INFORMATION: Synthetic Oligonucleotide
119 <210> SEQUENCE: 9
120 <210> SEQ ID NO: 10
121 <211> LENGTH: 20

```

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

```

132 <212> TYPE: tNA
133 <213> ORGANISM: Artificial Sequence
134 <214> FEATURE:
135 <215> OTHER INFORMATION: Synthetic Oligonucleotide
136 <400> SEQUENCE: 10
137 gcatgaggt tctgacgtt
138 <215> SEQ ID NO: 11
139 <215> LENGTH: 11
140 <215> TYPE: tNA
141 <213> ORGANISM: Artificial Sequence
142 <214> FEATURE:
143 <215> OTHER INFORMATION: Synthetic Oligonucleotide
144 <400> SEQUENCE: 11
145 gcatgaggt tctgacgtt
146 <215> SEQ ID NO: 12
147 <215> LENGTH: 10
148 <215> TYPE: tNA
149 <213> ORGANISM: Artificial Sequence
150 <214> FEATURE:
151 <215> OTHER INFORMATION: Synthetic Oligonucleotide
152 <400> SEQUENCE: 12
153 gcatgaggt tctgacgtt
154 <215> SEQ ID NO: 13
155 <215> LENGTH: 13
156 <215> TYPE: tNA
157 <213> ORGANISM: Artificial Sequence
158 <214> FEATURE:
159 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (7)...(7)
173 <223> OTHER INFORMATION: n = m5c
W--> 175 <400> 13
W--> 176 gctagangtt agcgt
177 <215> SEQ ID NO: 14
178 <215> LENGTH: 15
179 <215> TYPE: tNA
180 <213> ORGANISM: Artificial Sequence
181 <214> FEATURE:
182 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (13)...(13)
188 <223> OTHER INFORMATION: n = m5c
W--> 190 <400> 14
W--> 191 gctagacgtt agngt
192 <215> SEQ ID NO: 15
193 <215> LENGTH: 10
194 <215> TYPE: tNA
195 <213> ORGANISM: Artificial Sequence
196 <214> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

```

100 <222> OTHER INFORMATION: Synthetic Oligonucleotide
201 <400> SEQUENCE: 15
202 atngactctc gagcgttctc 20
203 <10> SEQ ID NO: 15
204 <211> LENGTH: 10
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
207 <214> FEATURE:
208 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (3)...(3)
214 <223> OTHER INFORMATION: n = m5c
W--> 216 <221> misc_feature
217 <222> LOCATION: (10)...(10)
218 <223> OTHER INFORMATION: n = m5c
W--> 220 <221> misc_feature
221 <222> LOCATION: (14)...(14)
222 <223> OTHER INFORMATION: n = m5c
W--> 224 <400> 16
W--> 225 atngactctn gagngttctc 20
226 <10> SEQ ID NO: 17
227 <211> LENGTH: 10
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
230 <214> FEATURE:
231 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: (3)...(3)
237 <223> OTHER INFORMATION: n = m5c
W--> 239 <400> 17
W--> 240 atngactctc gagcgttctc 20
241 <10> SEQ ID NO: 18
242 <211> LENGTH: 10
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
245 <214> FEATURE:
246 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (18)...(18)
252 <223> OTHER INFORMATION: n = m5c
W--> 254 <400> 18
W--> 255 atcgactctc gagcgttntc 20
256 <10> SEQ ID NO: 19
257 <211> LENGTH: 20
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
260 <214> FEATURE:
261 <215> OTHER INFORMATION: Synthetic Oligonucleotide
262 <400> SEQUENCE: 19

```

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

```

260 atggaaggctc gacgtttctc 20
168 <210> SEQ ID NO: 20
169 <211> LENGTH: 10
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
172 <214> FEATURE:
173 <215> OTHER INFORMATION: Synthetic Oligonucleotide
174 <400> SEQUENCE: 20
175 gagaagctc gacgtttccat 20
176 <210> SEQ ID NO: 21
177 <211> LENGTH: 10
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
180 <214> FEATURE:
181 <215> OTHER INFORMATION: Synthetic Oligonucleotide
182 <400> SEQUENCE: 21
183 gagaagctc gacgtttccat 20
184 <210> SEQ ID NO: 22
185 <211> LENGTH: 10
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
188 <214> FEATURE:
189 <215> OTHER INFORMATION: Synthetic Oligonucleotide
190 <400> SEQUENCE: 22
191 gagaagctc gacgtttccat 20
192 <210> SEQ ID NO: 23
193 <211> LENGTH: 10
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
196 <214> FEATURE:
197 <215> OTHER INFORMATION: Synthetic Oligonucleotide
198 <400> SEQUENCE: 23
199 gagaagctc gacgtttccat 20
200 <210> SEQ ID NO: 24
201 <211> LENGTH: 10
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
204 <214> FEATURE:
205 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 320 <221> NAME/KEY: misc_feature
206 <222> LOCATION: (6)...(6)
207 <223> OTHER INFORMATION: n = m5c
W--> 324 <400> 24
W--> 325 gagaangctg gaccttccat 20
208 <210> SEQ ID NO: 25
209 <211> LENGTH: 10
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
212 <214> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/630,319C

DATE: 01/22/2003
TIME: 18:25:12

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01222003\I630319C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 7
Seq#:14; N Pos. 13
Seq#:16; N Pos. 3,10,14
Seq#:17; N Pos. 3
Seq#:18; N Pos. 18
Seq#:24; N Pos. 6
Seq#:25; N Pos. 14
Seq#:30; N Pos. 8
Seq#:31; N Pos. 12
Seq#:43; N Pos. 8
Seq#:44; N Pos. 8
Seq#:116; N Pos. 14
Seq#:117; N Pos. 7
Seq#:122; N Pos. 8,17

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:41



1600

RAW SEQUENCE LISTING

DATE: 01/17/2003

PATENT APPLICATION: US/09/630,319C

TIME: 08:58:37

Input Set : A:\C01039.70042 (HCL-JAV).txt

Output Set: N:\CRF4\01172003\I630319C.raw

3 <110> APPLICANT: Krieg, Arthur M.
 4 Klimman, Dennis
 5 Steinberg, Alfred D.
 7 <120> TITLE OF INVENTION: Methods for Treating and Preventing
 8 Infectious Disease
 10 <130> FILE REFERENCE: C01039/70042(HCL/JAV)
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/630,319C
 13 <141> CURRENT FILING DATE: 2000-07-31
 15 <150> PRIOR APPLICATION NUMBER: US 08/960,774
 16 <151> PRIOR FILING DATE: 1997-10-30
 18 <150> PRIOR APPLICATION NUMBER: US 08/738,652
 19 <151> PRIOR FILING DATE: 1996-10-30
 21 <150> PRIOR APPLICATION NUMBER: US 08/386,063
 22 <151> PRIOR FILING DATE: 1995-02-07
 24 <150> PRIOR APPLICATION NUMBER: US 08/276,358
 25 <151> PRIOR FILING DATE: 1994-07-15
 27 <160> NUMBER OF SEQ ID NOS: 124
 29 <170> SOFTWARE: FastSEQ for Windows Version 3.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

1452 <210> SEQ ID NO: 124
 1453 <211> LENGTH: 20
 1454 <212> TYPE: DNA
 1455 <213> ORGANISM: Artificial Sequence
 1457 <220> FEATURE:
 1458 <223> OTHER INFORMATION: Synthetic Oligonucleotide
 1460 <400> SEQUENCE: 124
 E--> 1461 atggaggctc catcggtctc

206 - insert

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/630,319C

DATE: 01/17/2003
TIME: 08:58:40

Input Set : A:\C01039.70042 (HCL-JAV).txt
Output Set: N:\CRF4\01172003\I630319C.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:41

VERIFICATION SUMMARY

DATE: 01/17/2003

PATENT APPLICATION: US/09/630,319C

TIME: 08:58:40

Input Set : A:\C01039.70042 (HCL-JAV).txt

Output Set: N:\CRF4\01172003\I630319C.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:171 H:281 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:175 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:13
 L:176 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
 L:185 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:190 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:14
 L:191 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
 L:212 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:216 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:16
 L:220 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:16
 L:224 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:16
 L:225 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
 L:228 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:230 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:17
 L:240 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
 L:250 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:254 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:18
 L:255 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
 L:260 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:264 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:24
 L:265 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
 L:266 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:269 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:25
 L:270 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
 L:294 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:295 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:30
 L:296 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
 L:300 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:310 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:31
 L:314 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
 L:340 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:340 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:43
 L:340 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
 L:560 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:564 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:44
 L:565 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
 L:1306 M:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:1300 M:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:116
 L:1301 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0
 L:1311 H:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:1315 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:117
 L:1316 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0
 L:1400 M:241 W: Numeric Fields not Ordered, <211> Sort in ascending order!
 L:1404 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:122
 L:1408 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:122
 L:1409 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0
 L:1461 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:23 SEQ:124